

WHAT IS CLAIMED IS:

1. A message processing device to be carried around by a user and used by being connected to different networks at
5 different times, comprising:

a registration unit configured to register a plurality of message servers which are distributedly located on a plurality of network, according to a command of the user;

10 a determination unit configured to recognize a network to which the message processing device is currently connected, and determine communication methods for accessing the message servers registered by the registration unit;

15 a memory unit configured to store messages in the message processing device;

20 a message collection unit configured to collect messages destined to the user which are delivered from the message servers, using the communication methods determined by the determination unit, and storing the messages into the memory unit; and

25 a message transmission unit configured to transmit the messages stored in the memory unit, in response to a request from another device for carrying out message input/output which is connected to the network to which the message processing device is currently connected.

2. The message processing device of claim 1, further comprising a unit configured to store the messages collected by the message collection unit and stored in the
30 memory unit, into an external memory device, according to a condition specified by the user.

3. The message processing device of claim 2, further comprising a unit configured to delete the messages
35 collected by the message collection unit and stored in the

memory unit and the external memory device, according to a condition specified by the user.

4. The message processing device of claim 1, wherein the message transmission unit transmits the messages collected by the message collection unit and stored in the memory unit by processing the messages according to functions provided at said another device, upon receiving the request from said another device.

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5. The message processing device of claim 1, wherein the determination unit inquires a network domain to which the message processing device is currently connected, and determines accessible message servers among the message servers registered by the registration unit and the communication methods for accessing the accessible message servers, according to the network domain.

6. The message processing device of claim 1, further comprising a notification unit configured to notify an address of the message processing device to said another device, as a voluntary advertisement inside the network or in response to an inquiry from said another device.

7. The message processing device of claim 1, wherein the message collection unit collects the messages by accessing the message servers via a radio communication device which is built-in inside the message processing device or externally connected to the message processing device, and stores the message into the memory unit, in response to a user request entered from an input device associated with the message processing device, and

the message processing device further comprises a display unit configured to display the messages stored in the memory unit on a display screen associated with the

message processing device, in response to a user request entered from the input device.

8. A message processing device to be carried around by a user and used by being connected to different networks at different times, comprising:

a notification unit configured to notify an address of the message processing device to another device for carrying out message input/output which is connected to a network to which the message processing device is currently connected;

a memory unit configured to temporarily storing a transmission message entered from said another device, in response to a request from said another device;

a message server selection unit configured to specify a selected message server which is reachable to a destination of the transmission message among a plurality of message servers which are distributedly located on a plurality of network; and

a transfer unit configured to transfer the transmission message temporarily stored in the memory unit to the selected message server specified by the message server selection unit.

9. A message processing system for carrying out message exchanges with a plurality of message servers which are distributedly located on a plurality of network specified by a user, comprising:

a message processing device to be carried around by the user and used by being connected to different networks at different times; and

another device for carrying out message input/output with respect to the message processing device;

wherein the message processing device includes:

a notification unit configured to notify an address

of the message processing device to said another device which is connected to a network to which the message processing device is currently connected;

5 a memory unit configured to store messages in the message processing device;

10 a message collection unit configured to collect messages destined to the user by accessing the message servers according to information regarding communication methods for accessing the message servers from the network to which the message processing device is currently connected, and storing the messages into the memory unit;

a message transmission unit configured to transmit the messages stored in the memory unit, in response to a request from said another device; and

15 a transfer unit configured to transfer a transmission message having a destination message server which is reachable from the network to which the message processing device is currently connected, among transmission messages entered from said another message, in
20 response to a request from said another device.

10. A message processing method in a message processing device to be carried around by a user and used by being connected to different networks at different times,
25 comprising the steps of:

recognizing a network to which the message processing device is currently connected, and determining communication methods for accessing a plurality of message servers which are distributedly located on a plurality of
30 network and registered in the message processing device in advance;

collecting messages destined to the user which are delivered from the message servers, using the communication methods determined by the determining step, and storing the
35 messages into a memory provided in the message processing

device; and

transmitting the messages stored in the memory, in
response to a request from another device for carrying out
message input/output which is connected to the network to
5 which the message processing device is currently connected.

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